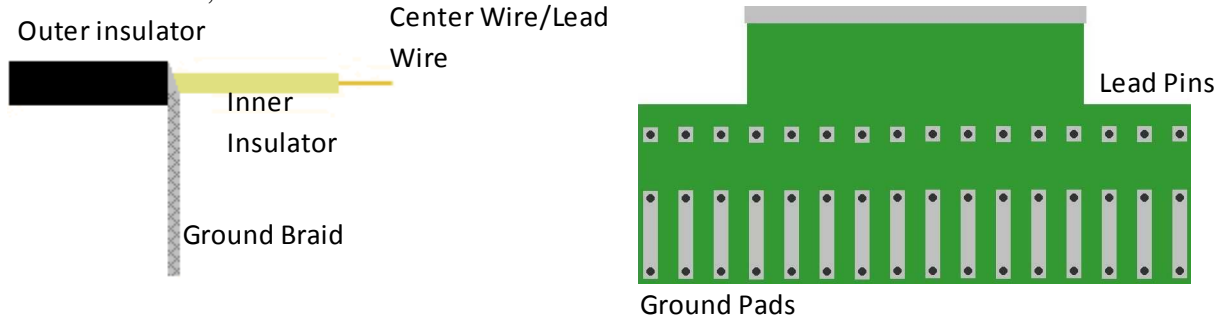


Transition Cards

A few notes:

The first two main steps can be done in either order.

The terms I use, labeled:



A list of items needed for this assembly:

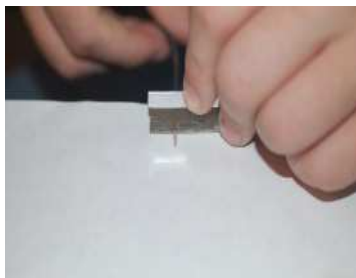
- About 300 ft. of cable (this was written for RG174 wire)
- Transition boards
- A wire stripper
- Razor blades
- A Soldering Iron and solder
- Electrical tape
- Flathead screwdriver

1. Wire prep

- a. Cut the wires to the desired length
- b. Strip off the outer insulation 2 cm from the end of the wire



- c. Make a small hole in the ground braid, and, using a small allen wrench or screwdriver, pull the inner wire and insulation out of the braid (through the hole)
- d. You can strip the inner insulation at this point, but it may be better to leave it protected for longer since the inner wires are a little weak. Use a razor blade a few millimeters in and carefully slice the insulation by rolling the wire along a flat surface with the razor pressed down on top



2. Transition Board Preparation

- a. Find out which places need to be soldered
- b. Put a small bed of solder on the ground pad about where the stripped ground braid will lie
- c. Fill the lead pin hole with solder

3. Soldering the wires

- a. If the inner insulation has not been stripped, do so at this time. Refer to step 1.d.
- b. Solder each wire to the board.
 - i. Solder the center wire to the lead pin.
 - ii. Twist the ground braid and pull it through the bottom hole on the ground pad, and lay it flat against the back of the ground pad.
 - iii. While pressing gently on the top of the braid, heat up the bed of solder and the ground braid until the solder binds to both the braid and the ground pad.



- iv. Check to see that it holds by giving the wire a slight pull up, away from the board
- v. repeat for each wire

4. Quality Assurance

- a. Check, using a multimeter, that there were no shorts in the wire.
 - i. Put either lead on one of the ground braids
 - ii. go down the line for each of the center wires, checking to see whether it shorted

5. Tape

- a. Use electrical tape and wrap it a few times, neatly over the soldered area.
- b. Tape the wires flat together in their order.
- c. Label the wires for their corresponding channel on the module they will eventually become a part of.